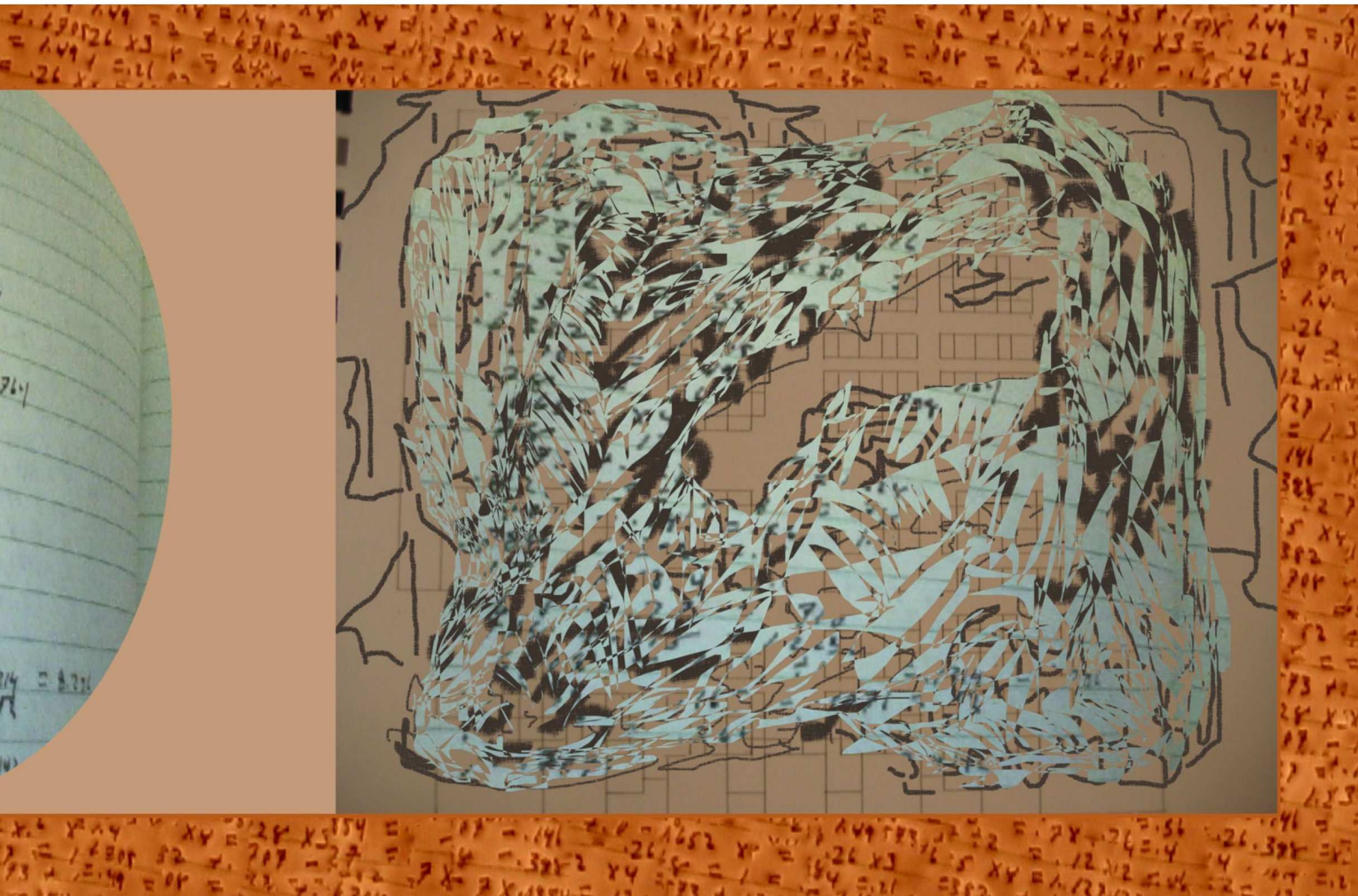


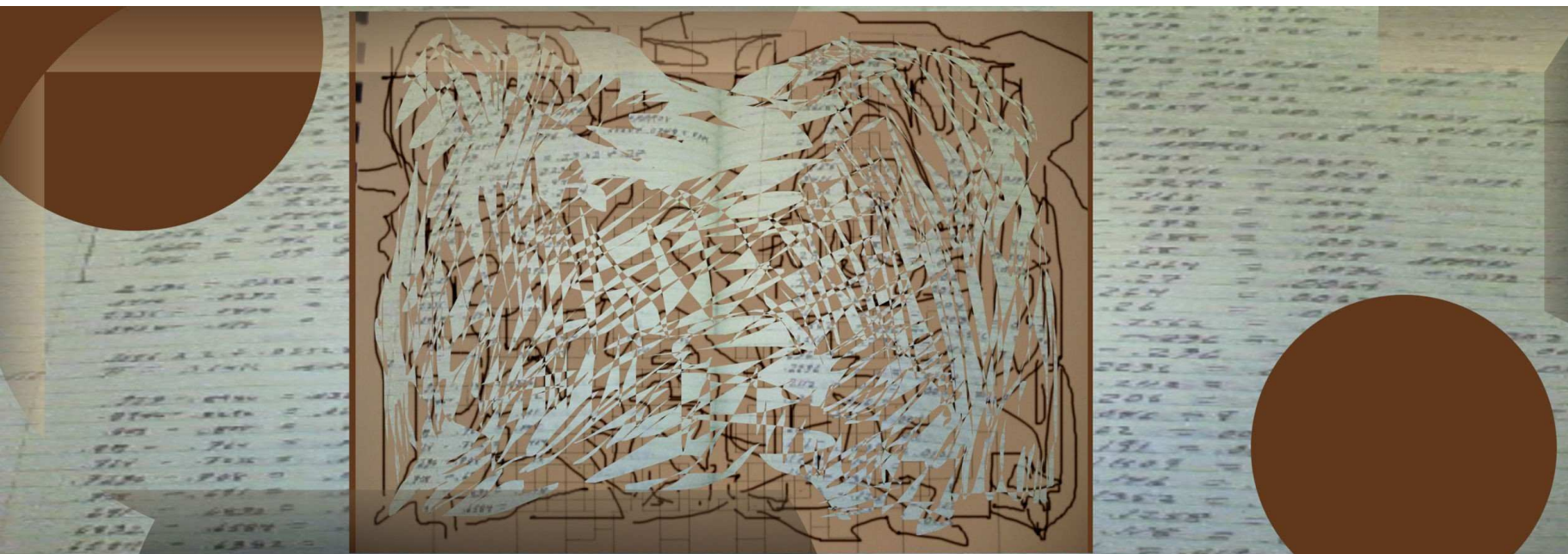
# Golden Section Become Personal Rhizome

Distant Background of a Current Cyber Drawing Series

Edwin VanGorder









$1.352 = 1.2 \times 1.127$   
 $1.44 = 1.2 \times 1.2$   
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 $1.772 = 1.2 \times 1.477$   
 $1.95 = 1.2 \times 1.625$   
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 $2.9 = 1.2 \times 2.417$   
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 $3.47 = 1.2 \times 2.892$   
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 $4.42 = 1.2 \times 3.683$   
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 $4.8 = 1.2 \times 4.0$   
 $4.99 = 1.2 \times 4.158$   
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 $19.81 = 1.2 \times 16.508$   
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 $20.19 = 1.2 \times 16.825$   
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 $86.31 = 1.2 \times 71.925$   
 $86.5 = 1.2 \times 72.083$   
 $86.69 = 1.2 \$



Golden Section Become Personal Rhizome

Distant Background of a Current Cyber Drawing Series

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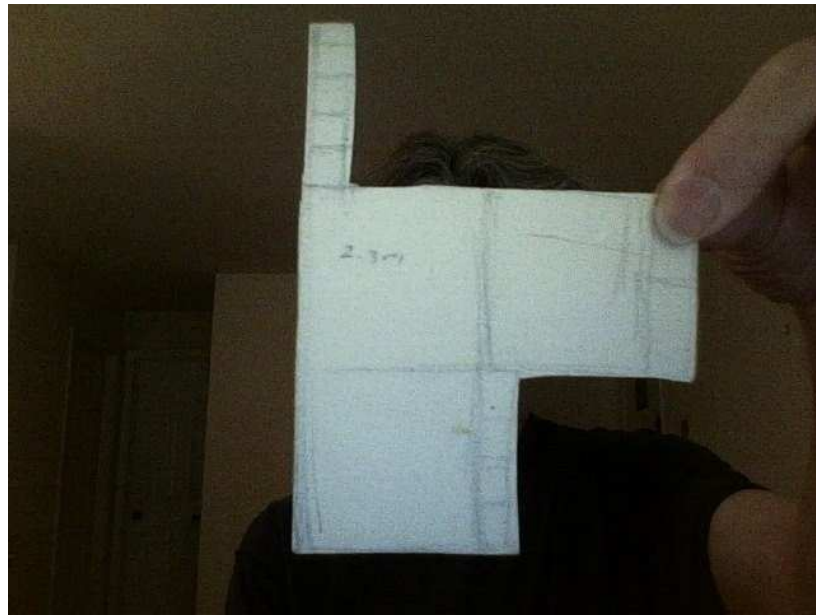
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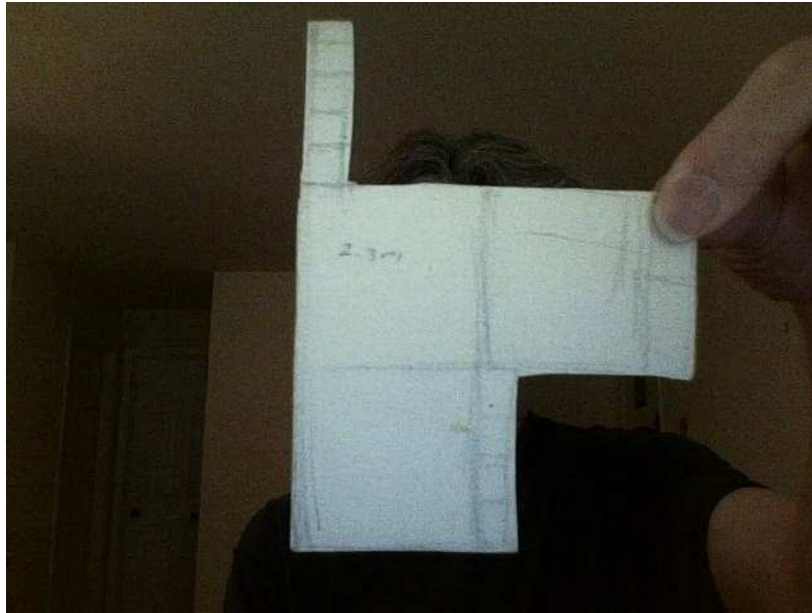
The grid I draw on is a golden section grid and in my current series which the first three drawings represent I use the numerical values as written for mathematical architectural plans I previously devised as "text mapping's" which become part of the drawing hatching: thus two systems of drawing become oddly embedded.

The long history of the section prior to this series is given its moment in the rest of the book ranging from a method developed for creating a golden section grid I created, plans, projections and numerical "programs" which I will continue in the ongoing series to use as text mapping's.

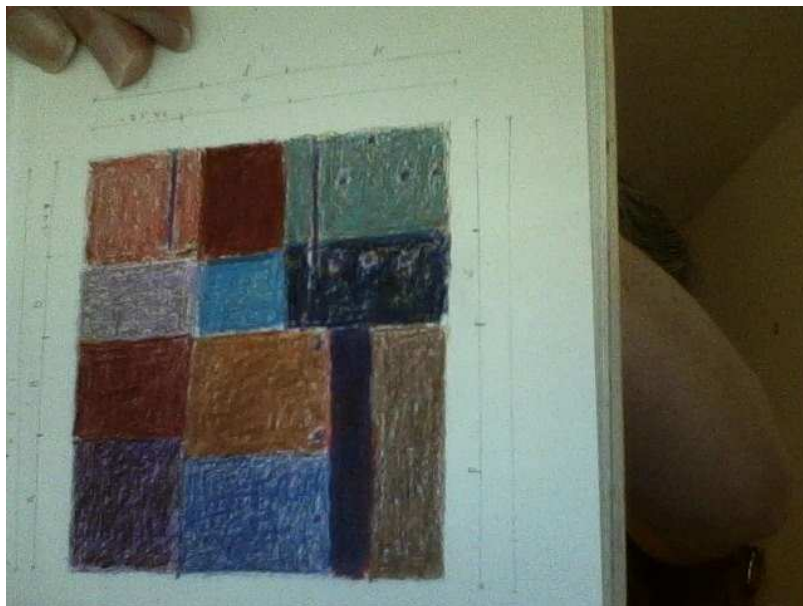




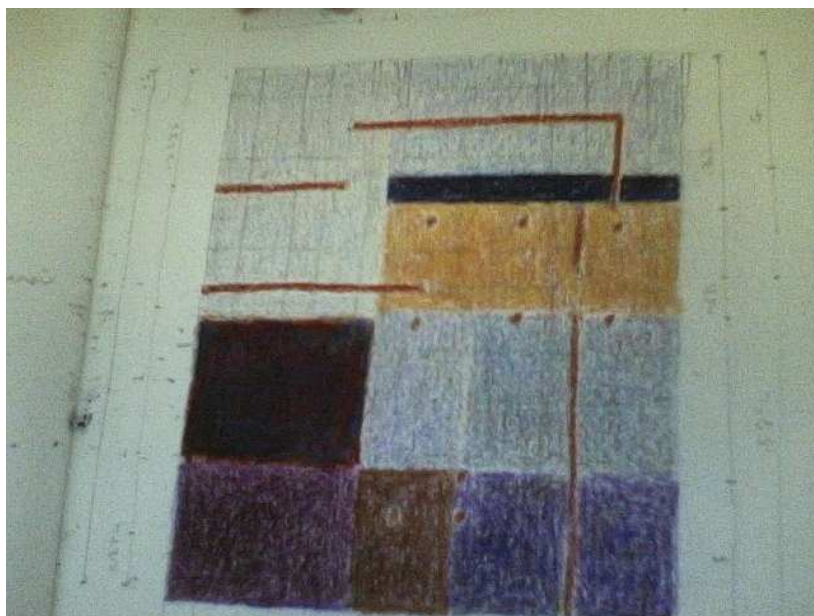
"model" of a ratio in relation to its being cut in half vertically or horizontally

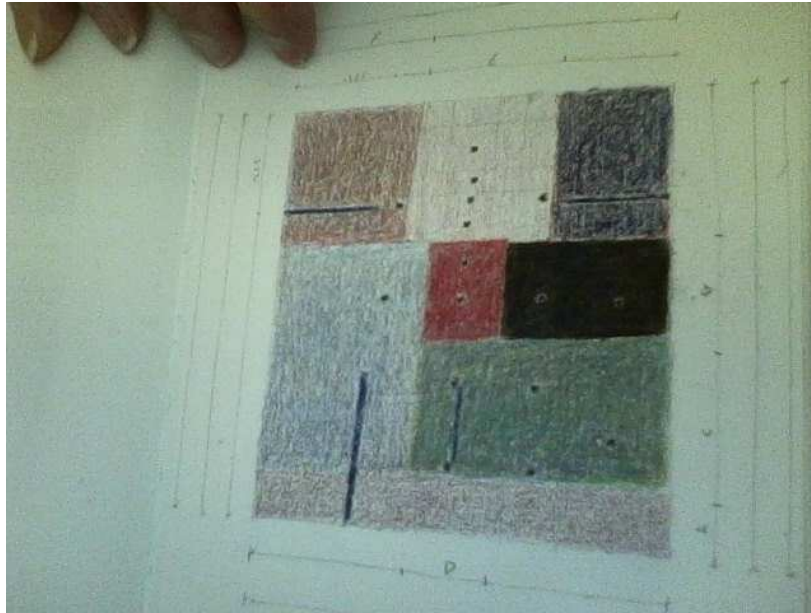


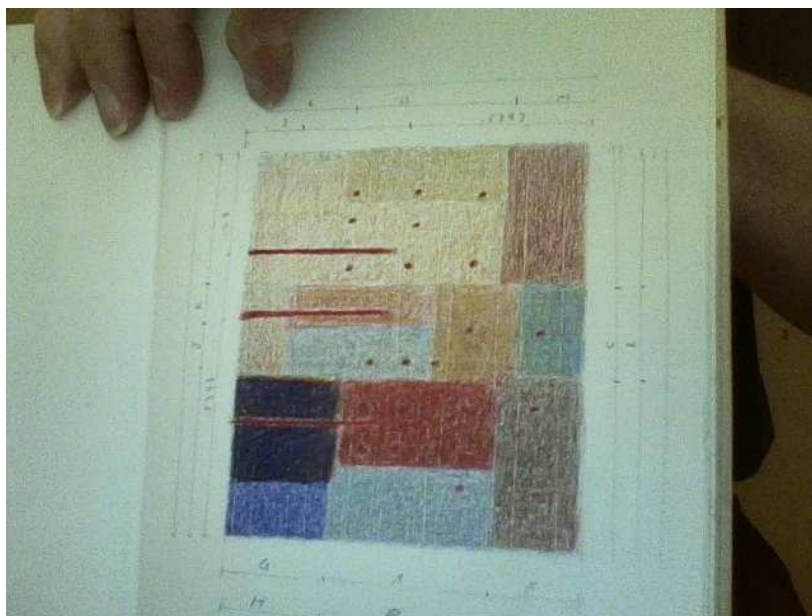


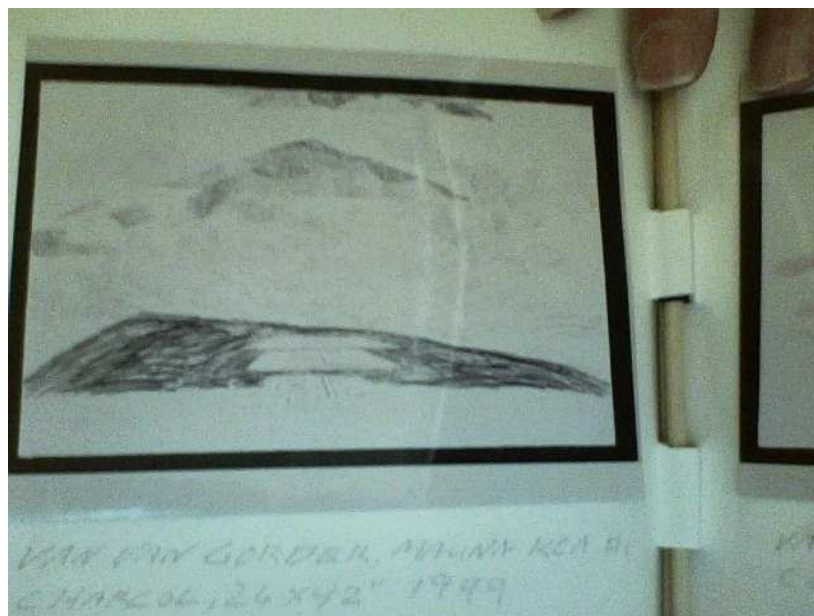




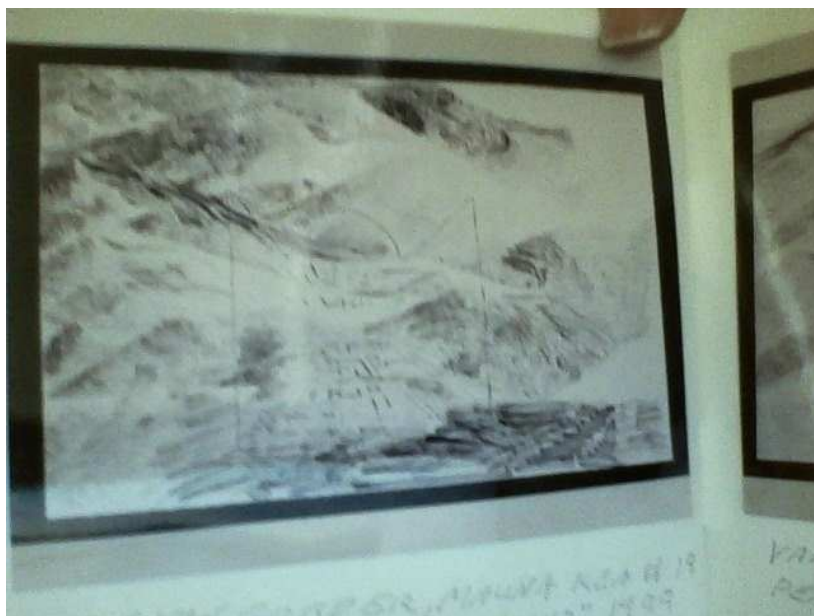




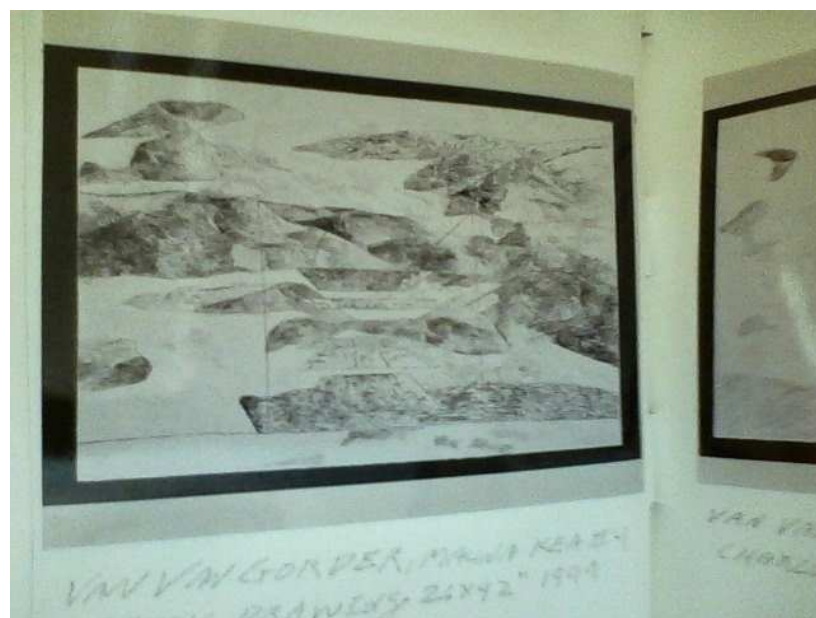






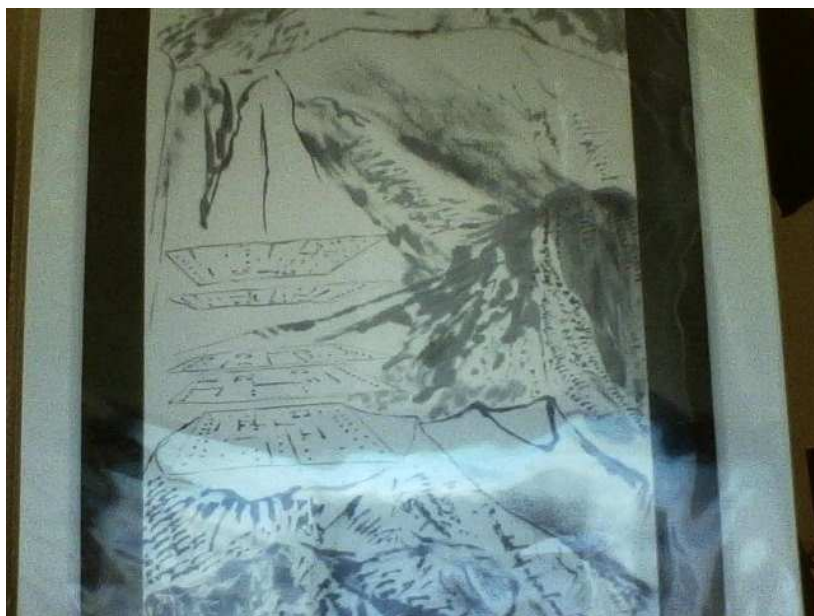






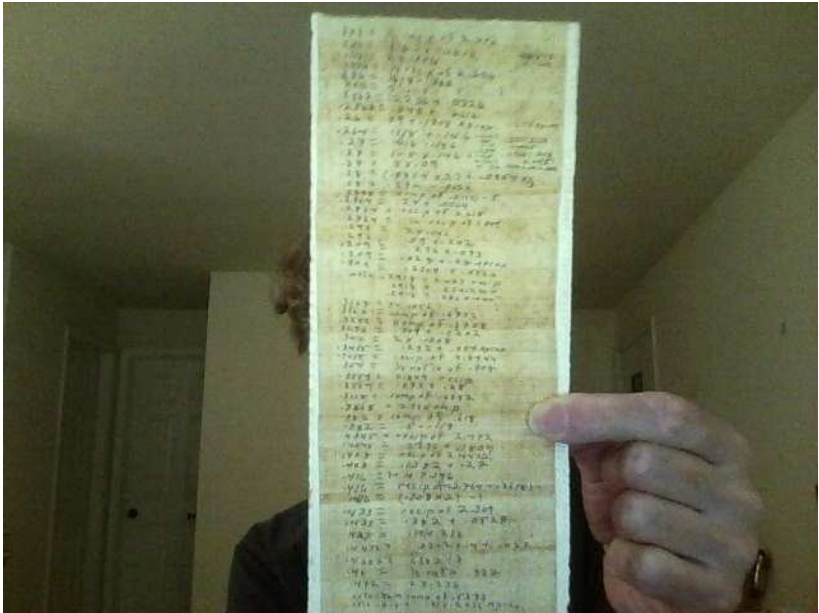












$$\begin{aligned}
 &= .0 \text{ APPROX} \\
 &\text{COMP. 4} \\
 &854 \times 8 = 6382 \\
 &\times 9 = .76 \text{ APPROX} \\
 &\times 10 = 854 \\
 &-.0606 = .9394 = 11 \times .0854 \\
 &1 - .0606 = .1304 \\
 &4 = .5216 = 1.91 \\
 &-.191 \times 10 \text{ APPROX} \\
 &-.0248 = .9572 = .191 \times 5 \\
 &.472 \times 15 = .708 \\
 &.54 = 7 \times .0064 \text{ APPROX} \\
 &2.36 \times 7 = 1.56 = .64 \\
 &427
 \end{aligned}$$



$$.202 = \frac{1}{2} \text{ recip of } 2.472$$

$$.206 = .618 - 3 = 4.454$$

$$.2112 = 2 \times .1056$$

$$.2236 = \frac{1}{2} \text{ recip of } 2.236$$

$$.236 = .618 - .382$$

$$.256 = 5 \times .0512$$

$$.2562 = 2.236 + .0326$$

$$.2562 = .045 + .2112$$

$$.26 = .09 + .1708 \text{ Approx}$$

$$.264 = .118 + .146$$

$$.27 = .416 - .146$$

$$.27 = 1 - 5 \times .146$$

$$.27 = 3 \times .09$$

$$.28 = (.0854 \times 3.2) + .0854 \times 3$$

$$.28 = .272 + .0124$$

$$.284 = 1 \text{ comp of } .2112 - 5$$

approx

$$292 + 288 \text{ approx}$$

$$288 + 0.154$$

$$236 + 2682$$

$$= 2618$$

$$= 6584 = 1.518$$

$$944 + 7236$$

$$45 + 8226$$

$$1745$$

$$6584 = 1.818 \text{ And sig recip } 3 = 64$$

$$16 + 6584$$

$$6584$$

$$832 = 1.46$$

$$882 \text{ approx}$$

$$3292$$

$$708 = 149 = 785 + 708$$

$$3944$$

$$44 = 748.7231$$

$$44 = 1.116 \times 2 = 2.236$$

$$3292 \times 2 = 6584$$

$$8292 \times 2 = 16584$$

$$268 = 3712$$

$$26 \text{ approx}$$

$$7.288 \text{ approx}$$

$$1256$$

$$= 146 \times 10$$

$$4 = 1.854 \text{ approx}$$

$$64$$

$$\text{prox}$$

$$1 - 0.974 = 9146 \times 2 = 1.206$$

$$8396 + 8373 = 1.87$$

$$5393 + 206 = 745$$

$$8726 \times 2 = 1745 = 5375 + 214$$

$$788 = 736 + 528$$

$$873 + 127 = 7 = 1.421$$

$$429 \times 3 = 128 = 79$$

$$1.854 = 8396 + 5985 + 4189$$

$$= 1.6617 + 1/2 \text{ ratio } + 1/2 \text{ recip of } 1.191$$

$$1.191 + 5955 = 788 \text{ approx}$$

$$1.618 = 8726 + 745$$

$$1.618 = 758 + 8292$$

$$1.854 = 7889 + 10652 + 1003657 + 4322$$

$$2.4472 = 4086 = 4.09 \text{ APPROX}$$

$$7.09 \times 4 = 1.14 \text{ APPROX} = 609$$

$$745 = 4472 \times 3 = 1.3416$$

$$1 - 3416 = 6584 = 1.518$$

$$318 = 1727 \times 3$$

$$1727 \times 4 = 691$$

$$618 - 518 = 1$$

$$1051 - 1 = 0.051 = 223 = 4$$

$$1 - 0.652 = 0.348$$

$$0.348 - 0.248 = 0.101 \text{ APPROX}$$

$$0.75 \times 3 = 2.25$$

$$0.45 \times 3 = 1.35$$

$$236 - 255 = 811$$

$$135 \times 2 = 27$$

$$0.79 \text{ of } 100 = 79 = 5/8 = 9$$

$$1 - 472 = 528 - 8101 = 5$$

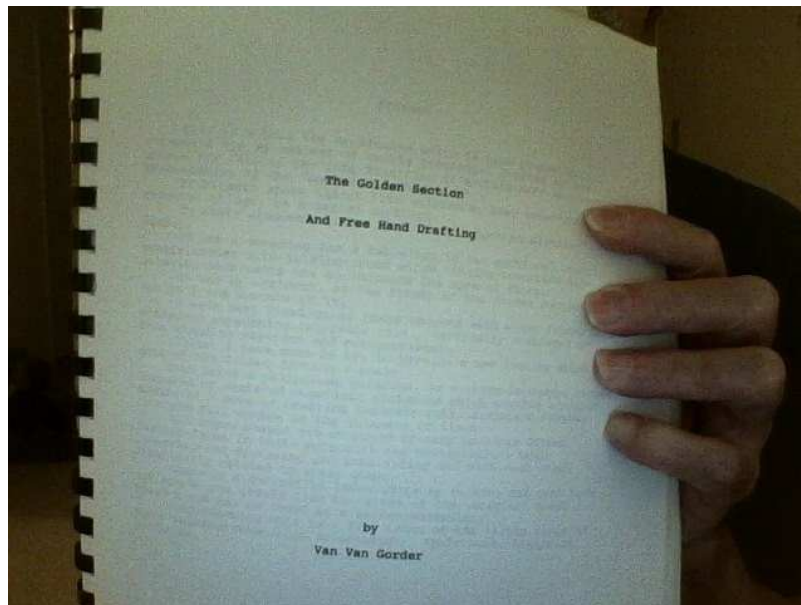
$$528 = 264 \times 2$$

$$1.691 = 591 = 5/8 + 172$$

$$402$$



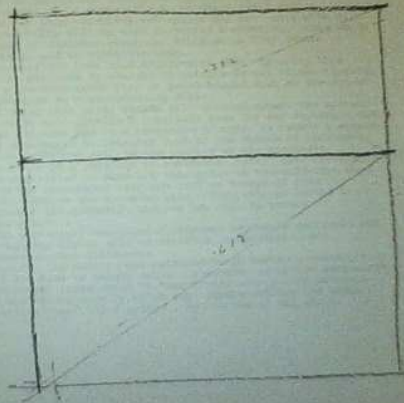
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 2. 1000 - 1000 = 0  
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 90. 1000 - 1000 = 0  
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 92. 1000 - 1000 = 0  
 93. 1000 - 1000 = 0  
 94. 1000 - 1000 = 0  
 95. 1000 - 1000 = 0  
 96. 1000 - 1000 = 0  
 97. 1000 - 1000 = 0  
 98. 1000 - 1000 = 0  
 99. 1000 - 1000 = 0  
 100. 1000 - 1000 = 0



Other Notes: The method used in all the drawings of this text will be that of listing the side to length ratio of a rectangle along its diagonal.

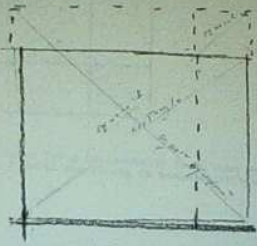
Therefore it is important to remember that this is not the objective length of the diagonal itself as the hypotenuse of two right triangles reflecting across the diagonal of a rectangle.

The listing on the diagonal is using the diagonal as a typographical entity only.





-4-  
For any rectangle at all we encounter, these relations attend and by "applying a square" the original framework can be reestablished.

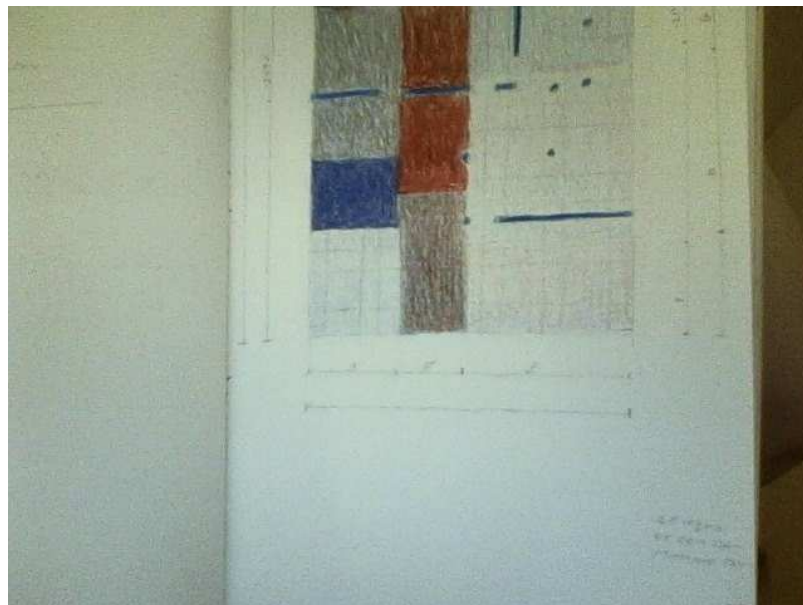


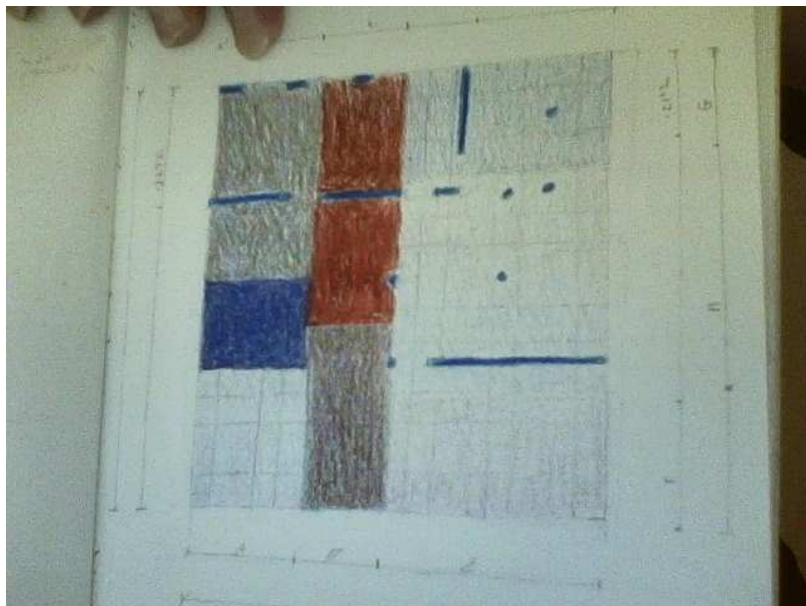
The original line segment of course implied by its two distinctions a ratio in that one will fit into the other to a certain degree or number of times.  
The relative sizes of the two squares also express this same ratio, one square is the ratio expression of the other.  
The Greeks appreciated this relationship without applying numbers; instead they "applied a square" as in the previous "reconstruction".

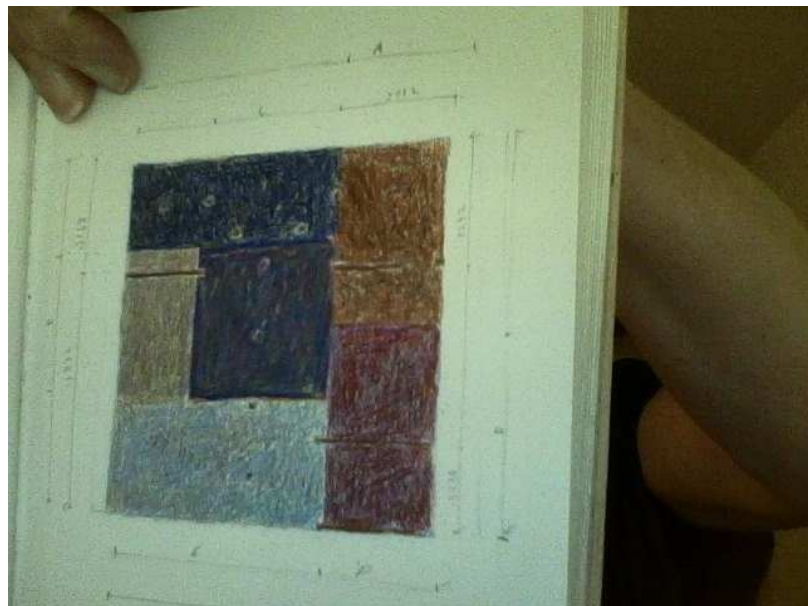
The following is a chart of the Golden Section forms most frequently used by the Greeks and which form a matrix of working forms for further development.

| Ratio  | <i>Reciprocal</i><br>1/2-Ratio | <i>Ratio</i><br>Reciprocal | 1/2 Reciprocal |
|--------|--------------------------------|----------------------------|----------------|
| 1.118  | .8944                          | .559                       | .4472          |
| 1.191  | .8396                          | .5955                      | .4198          |
| 1.236  | .809                           | .618                       | .4045          |
| 1.309  | .764                           | .6455                      | .382           |
| 1.382  | .7236                          | .691                       | .3618          |
| 1.4472 | .691                           | .7236                      | .3455          |
| 1.618  | .618                           | .809                       | .309           |
| 1.809  | .5528                          | .9045                      | .2764          |
| 1.854  | .5391                          | .927                       | .2696          |
| 2.236  | .4472                          | 1.118                      | .2236          |
| 2.309  | .433                           | 1.1545                     | .216           |
| 2.472  | .4045                          | 1.236                      | .202           |
| 2.4472 | .408                           | 1.2236                     | .204           |
| 2.618  | .382                           | 1.309                      | .191           |
| 2.764  | .3618                          | 1.382                      | .1809          |
| 2.809  | .3559                          | 1.4045                     | .1779          |
| 2.8944 | .3455                          | 1.4472                     | .1727          |
| 3.236  | .309                           | 1.618                      | .1545          |
| 3.427  | .2918                          | 1.7135                     | .146           |
| 3.618  | .2764                          | 1.809                      | .1382          |

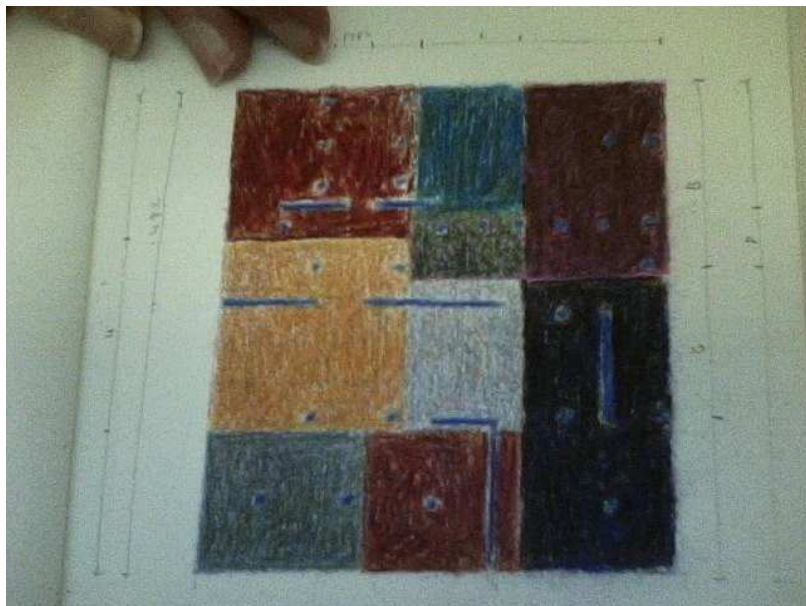
$$\begin{aligned}
 .267 &= 1/4 + 1/46 & \text{1/4} &= .25 & \text{1/46} &= .0173913 \\
 .27 &= 1/4 + 1/46 & & & & \\
 .27 &= 1 - 8 \times 1/46 & & & & \\
 .29 &= 3 \times .09 & & & & \\
 .28 &= (.0854 \times 3) + .0854 & & & & \\
 .28 &= .272 + .008 & & & & \\
 .284 &= 10 comp of .2112 = .5 & & & & \\
 .2764 &= .27 + .0064 & & & & \\
 .2764 &= recip of 2.618 & & & & \\
 .2764 &= 1/rat of 1.809 & & & & \\
 .292 &= 2 \times .146 & & & & \\
 .292 &= .09 + .202 & & & & \\
 .309 &= .206 + .093 & & & & \\
 .309 &= .028 + .28 approx & & & & \\
 .309 &= .2764 + .0326 & & & & \\
 .2918 &= 2.487 recip & & & & \\
 .2918 &= .27 + .0218 & & & & \\
 .2918 &= .246 + .0458 & & & & \\
 .3168 &= 3 \times .1056 & & & & \\
 .3168 &= comp of .6832 & & & & \\
 .3292 &= comp of .6708 & & & & \\
 .3292 &= .304 + .0202 & & & & \\
 .346 &= 2 \times .173 & & & & \\
 .3458 &= .292 + .054 approx & & & & \\
 .3458 &= recip of 2.8944 & & & & \\
 .354 &= 1/2 ratio of .708 & & & & \\
 .3589 &= 2.809 recip & & & &
 \end{aligned}$$



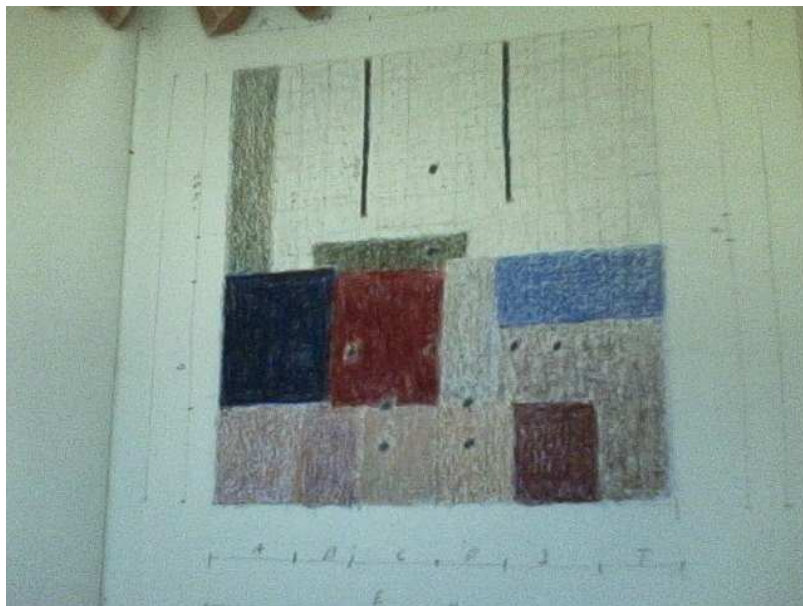


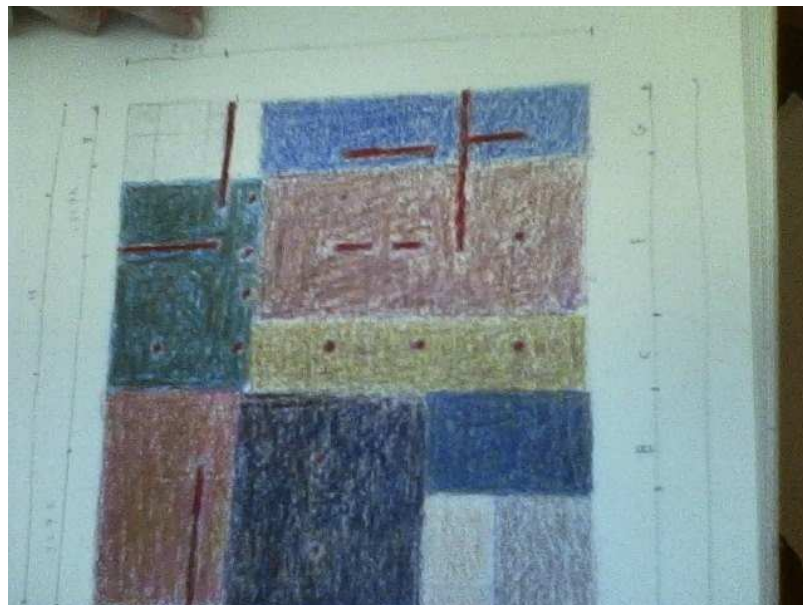


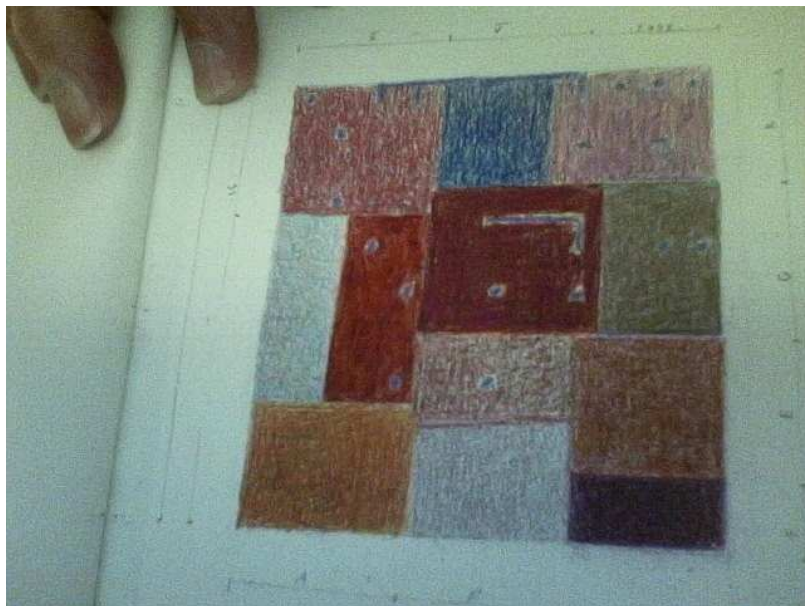






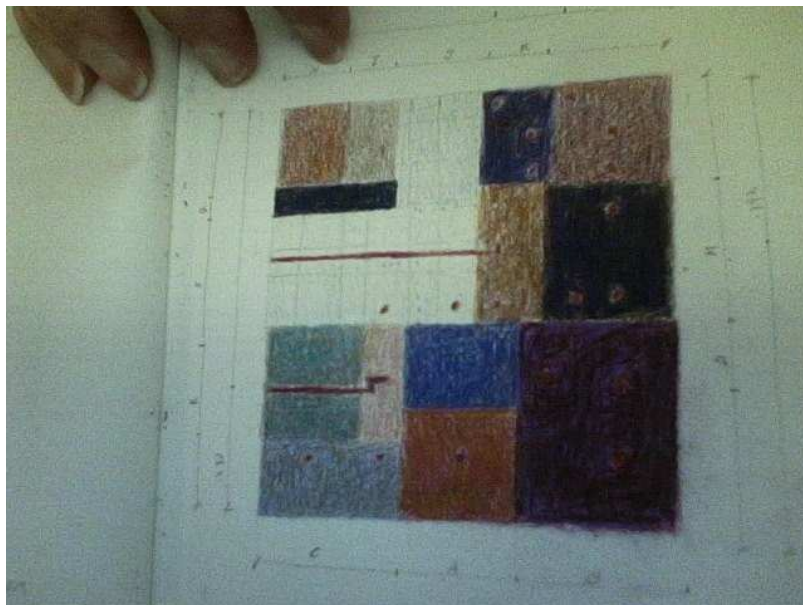


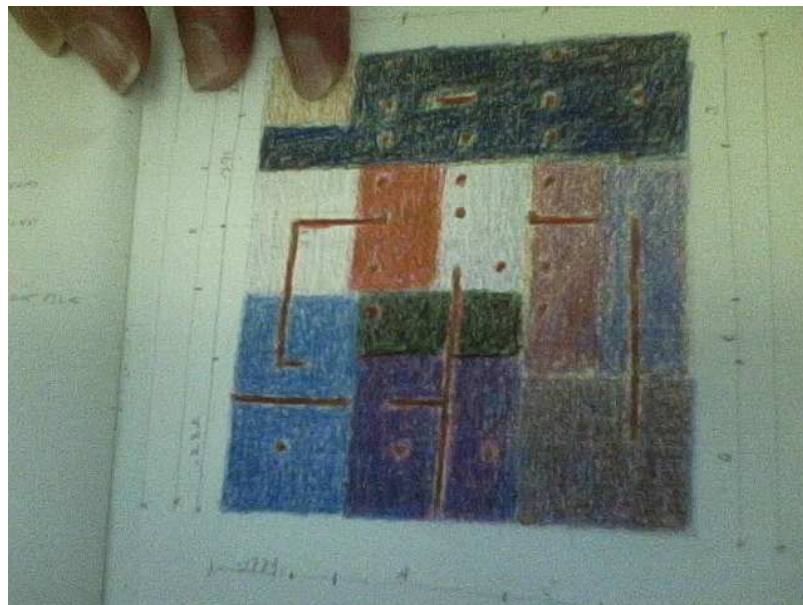


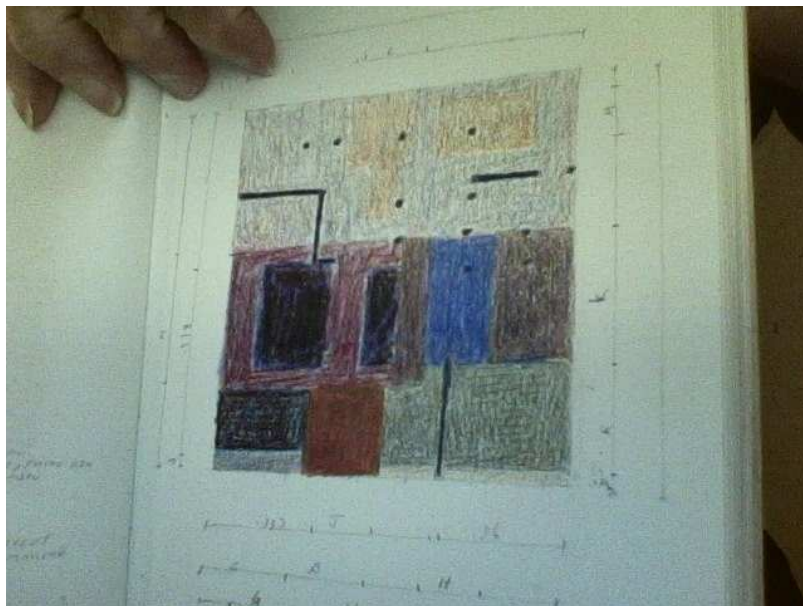


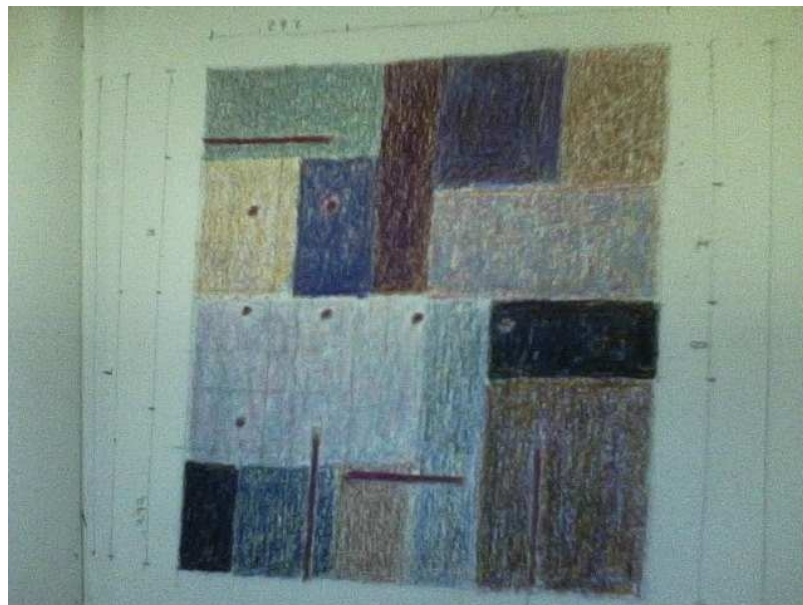


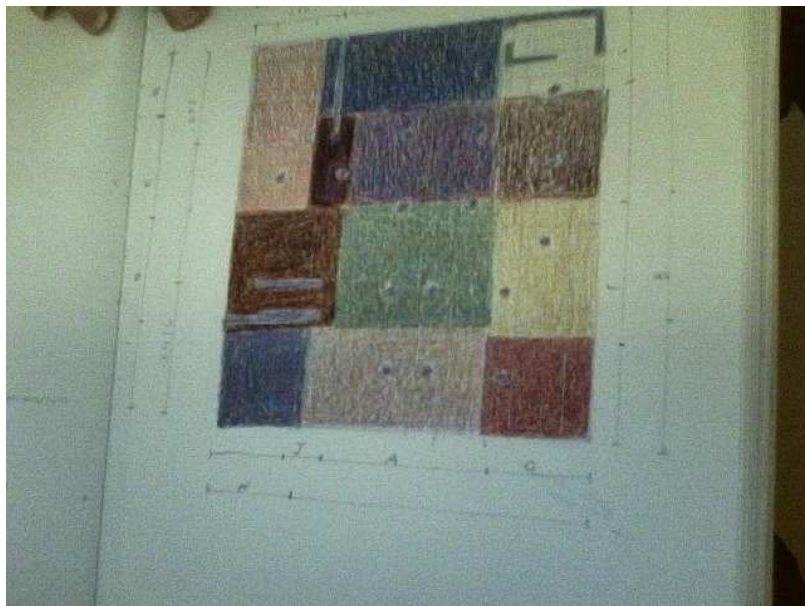


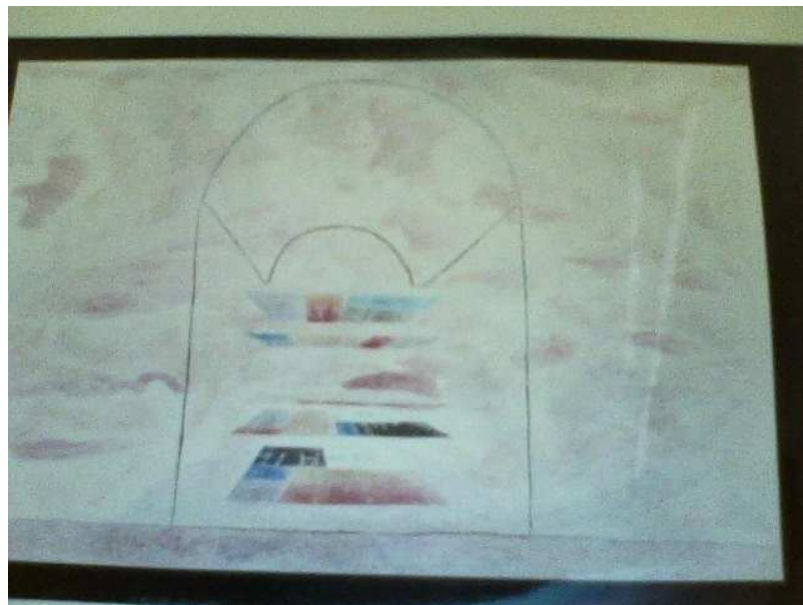














The full range of shapes indicated in the previously detailed scale may be created through transpositions on the matrix format.

The following transpositions (areas superimposed upon one another in order to determine a subtraction) will give a preliminary or basic vocabulary to consider.

.418 - .382 - .336 reciprocal = 1 divided by .336 = 4.236.  
 .382 - .238 = .144 and reciprocal = 1 divided by .144 = 6.944.  
 .238 - .0453 = .1708 and reciprocal = 1 divided by .1708 = 5.854.  
 1.834 - .618 x 3 and reciprocal = 1 divided by 1.854 = .5396.

Note that to find the reciprocal of a number it is divided into one whether less than one as in .336 or more than as above.

.382 divided 2 = .191 and reciprocal = 1 divided by .191 = 5.238.  
 .5528 = complement of .4472 and reciprocal = 1 divided by .5528 = 1.809.

1 - .191 = .809 and reciprocal = 1 divided by .809 = 1.236.  
 .5528 - .4472 = .1056 and reciprocal = 1 divided by .1056 = 9.472

Note .472 = .236 x 2 and 9.472 = 4.236 (2) x 2.  
 .1056 - .0453 = .0604 which is a very powerful building block.  
 (see index) reciprocal of .0404 = 1 divided by .0404 = 24.753  
 divided by 4 = 6.18 and 6.18 = .618 x 10.

Note also in the index the numbers derived from .0404 such as .3203, .5808, .0101, etc.

.0453 - .0202 (i.e. .0404 divided by 2) = .045 or .236 - .191 = .045  
 .045 .045 is the most common building block and its reciprocal is 22.222. 1 - .0101 = .9899 and each .045 shape marks of an important Golden Section derivative (see index).

.045 = .0404 + .0054 = 1/2 .1708  
 .0454 x 3 = .2562 (.2562 = 3 x .1708) and .2562 x 1/3 .0854 = .28  
 = 2.573 and .573 x 2 = 1.146.

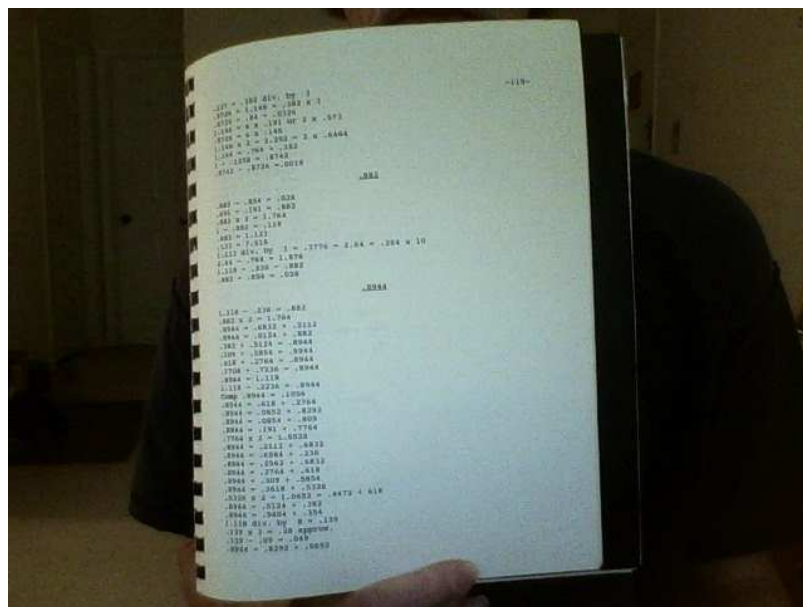
Note .573 also = 3 x .189 and its reciprocal = 1.745 with .745 being the reciprocal of 1.3416 or .4472 x 3

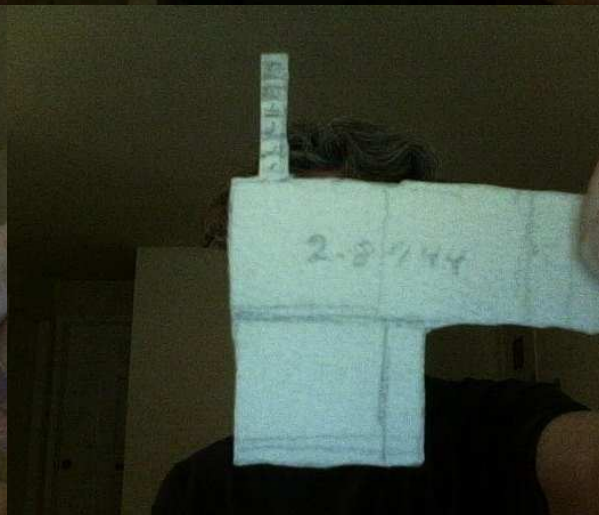
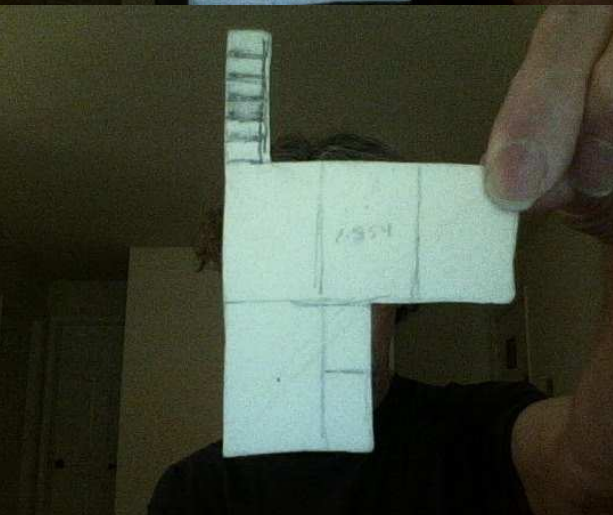
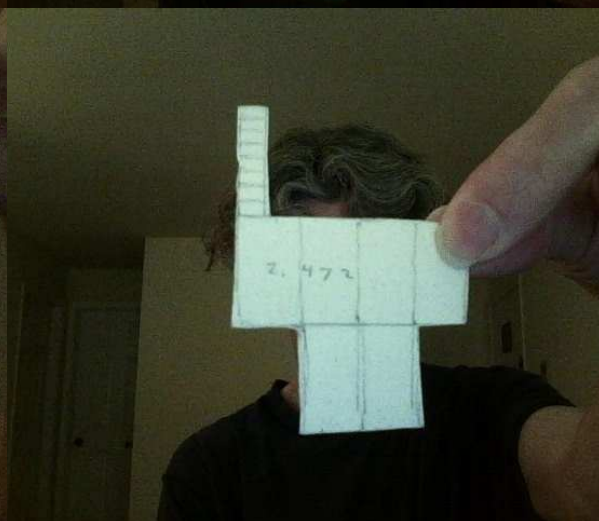
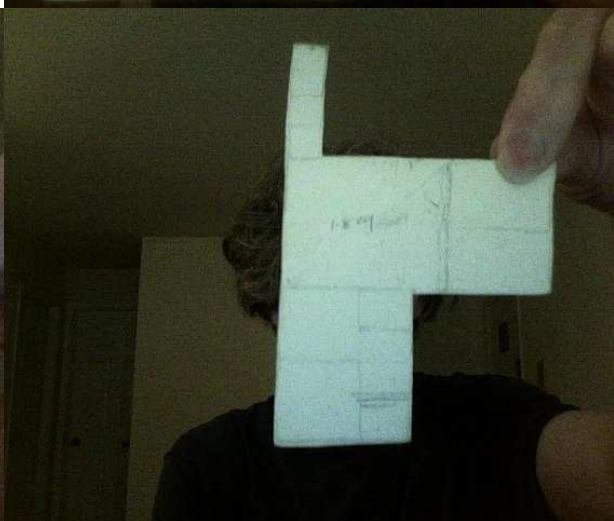
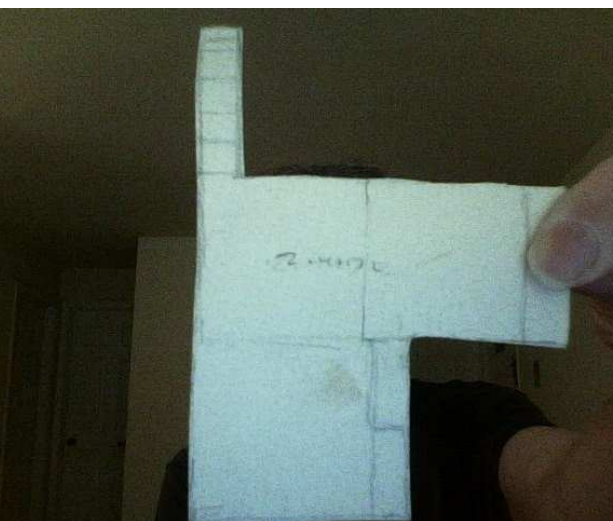
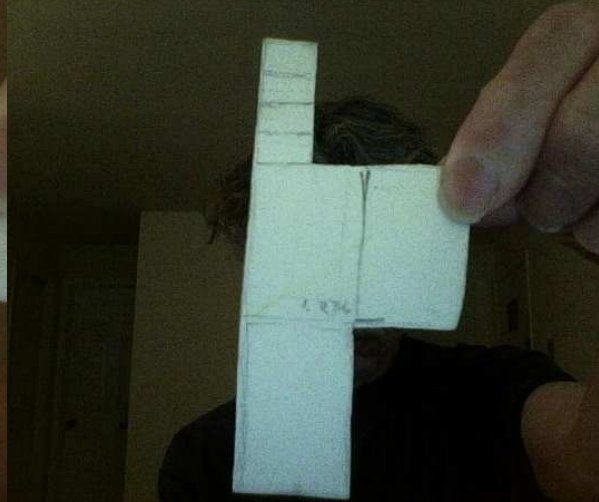
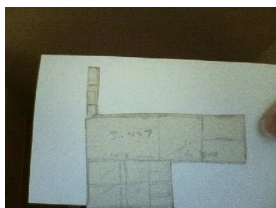
Note .4472 = reciprocal of 2.236 or the sq. root of 5.  
 .36 is also important in the form it takes in the compound rectangle 1.36 which has the provocative spiral format indicated in the index.

.618 divided by 3 = .309 and reciprocal = 1 divided by .309 = 3.236 1.4472  
 .0453 divided by 5 = .0124 and reciprocal = 1 divided .0124 = 80.645  
 80.645 divided by 3 = 27 approx. = .27 x 10 and .27 = 1/2

reciprocal of 1.854 = 5 x .618  
 1 - .309 = .691 and reciprocal = 1 divided by .691 = 1.4472









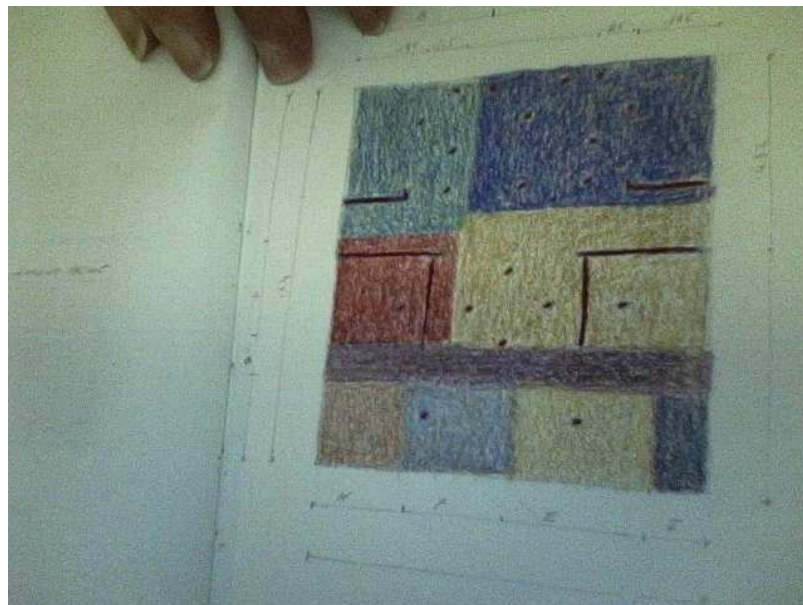


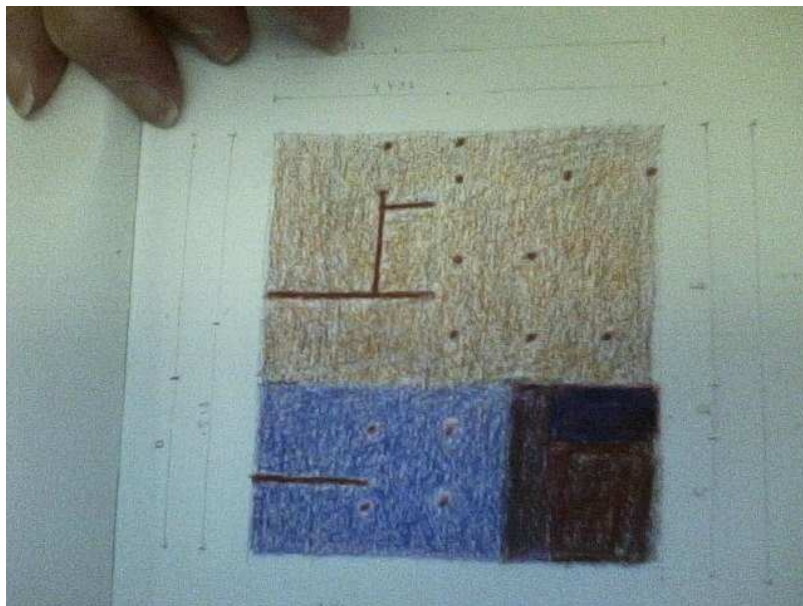
A photograph of a single sheet of white paper with horizontal blue or grey ruling lines. The paper is slightly wrinkled and has some faint smudges. It is placed against a dark background.

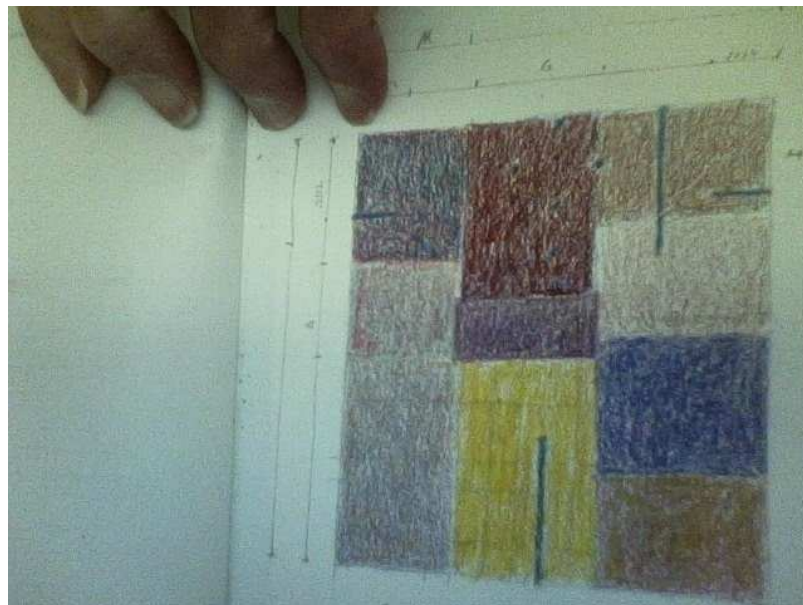
- 2 -

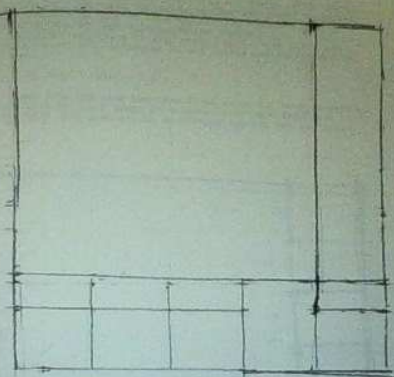
.236 = .618 - .382  
 .24 = .1382 + .0101  
 .254 = .133 x 3  
 .28 = .0652  
 .284 = .118 + .146  
 .27 = .08 x 3  
 .2764 = .5528 divided 2  
 .28 = .0854 x 3 + (.0854 x 1/3)  
 .2846 = .1708 + .118  
 .292 = .146 x 2  
 .3 = .127 + .173  
 .309 = 1/2 .618  
 .2168 = .1058 x 3  
 .2292 = .308 + .0202  
 .3416 = .1708 x 3  
 .3455 = 1/2 recip. 1.4472  
 .35 = 1/2 .7  
 .354 = 1/2 .708  
 .3559 = recip. 2.809  
 .36 = .09 x 4  
 .3618 = .2764 + .0854  
 .382 = comp. .618  
 .3888 = .118 + .27  
 .4 = .4472 - .0472  
 .4045 = 1/2 .809  
 .406 = .26 + .146  
 .408 = .1382 + .27  
 .4146 = .1382 x 3  
 .416 = .27 + .146  
 .427 = .191 + .237  
 .433 = .382 + .0528  
 .44 = 1 - 2 x .28  
 .4472 = the square root of five and is defined in the matrix of  
 the square by an arc with legs anchored on one side as its  
 diameter and which meets the corner to corner diagonal of the  
 square at which point the proportion of .4472 or the reciprocal  
 of 2.236 may be established.  
 .45 = .045 x 10  
 .4564 = .382 + .074  
 .46 = 1/2 ratio .927 approx.  
 .472 = .226 x 2  
 .48 = .074 + .416  
 .5 = 1/2 square  
 .518 = .1727 x 3 approx.  
 .5124 = .1708 x 3  
 .528 = 1 - .472  
 .5393 = .5528 - .0135  
 .54 = .84 - .3 [note .3 is very simply a division in three equal  
 parts which culminates in three equal squares].  
 .5518 = comp. of .4472  
 .56 = .28 x 2  
 .573 = .191 x 3











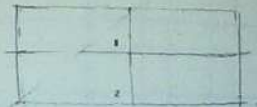
The smaller .7236 areas have been expressed as a square + a remainder, namely .283 except for one "entrance area".  
 The last one at A has been extended across the field or square which means that its ratio has been visualized into the overall or objective "area" or square.  
 Its ratio is 3.618 divided .7236 which = 5 and the reciprocal of 5 is .21 and .2 x the area it is extended across makes a visual transparency or overlap in this region which is crossed or is at namely the .7236 region of the square.  
 The area B is this objective ratio of .2 "at" .7236 and this area of transparency or overlap reads as A x C = B or A "by" C = B.

We have seen that divisions on a grid create similar shapes to each other and to their host field because a division on one axis is equalized by a division on the other.

This rather obvious fact has the somewhat more mysterious consequence that the rectangle spoken of as being divided has countable parts which may be spoken of as being divided has number of times because a counter division whether or not actually taken is implied on the opposite axis as a potential definition of equally sized sub units.

The existence of this possibility, namely the potential of a grid definition defines one axis as equalized by the other.

A rectangle as below divided in quarters shows its  $1/2$  ratio to be composed of two similar shapes stacked.



The same rectangle divided in quarters but set on its reciprocal axis shows that the reciprocal's  $1/2$  ratio = the same two shapes but stacked end to end relative to the first drawing.

A  $1/2$  ratio therefore counts against one axis and a  $1/2$  reciprocal counts against the other.

Here, the  $1/2$  ratio is composed of two similar shapes to the whole which may be counted against the opposite axis as two in number.

The Grid format will always show that a division by a certain quantity will yield the reciprocal of the field taken the number of times of the division itself.

# The Formative Matrix

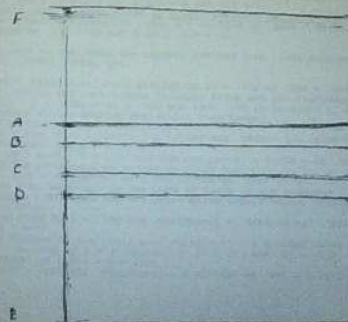
The formative matrix will provide by transpositions a complete range of Golden Section divisions as they may be located within a square. This formative matrix is a quincunx (cross in square) format composed of the overlapping of the square root of five and of the Golden Section when they are composed within the same square.

This scale or framework of relative values that may be composed as a harmonic whole within a square and which constitutes a measuring tool is as follows in its sequence of divisions :

|       |       |
|-------|-------|
| .0004 | .1708 |
| .0046 | .1727 |
| .004  | .173  |
| .0064 | .18   |
| .0078 | .1809 |
| .0101 | .1927 |
| .0124 | .202  |
| .0129 | .203  |
| .0156 | .204  |
| .0202 | .206  |
| .0248 | .2112 |
| .0316 | .2236 |
| .0348 | .226  |
| .0365 | .2316 |
| .0404 | .255  |
| .045  | .2562 |
| .046  | .26   |
| .0508 | .264  |
| .0632 | .27   |
| .064  | .2764 |
| .065  | .28   |
| .066  | .2898 |
| .073  | .292  |
| .074  | .3    |
| .078  | .308  |
| .0808 | .3168 |
| .0854 | .3292 |
| .09   | .34   |
| .101  | .3416 |
| .1056 | .3455 |
| .118  | .35   |
| .1258 | .354  |
| .135  | .3588 |
| .1382 | .36   |
| .146  | .3618 |
| .16   | .382  |

The formative matrix in its simplest and most useful form is shown below.

Rectangle AE = .618  
 Rectangle AF = .382 = complement of .618  
 Rectangle DF = .618  
 Rectangle DE = .382 = complement of .618  
 Rectangle BF = .4472 = square root of 2  
 Rectangle BE = .5528 = complement of .4472  
 Rectangle CE = .4472 = square root of 2  
 Rectangle CF = .5528 = complement of .4472  
 Rectangle BC = .1056 =  $1 - (2 \times .4472)$   
 Rectangle AC = .1056 also =  $.5528 - .4472$   
 Rectangle AB = .0652 =  $.4472 - .382$   
 Rectangle AD = .0652 =  $.618 - .5528$   
 Rectangle CD = .0652 =  $.4472 - .382$   
 Rectangle CB = .0652 =  $.618 - .5528$   
 Rectangle AC = .1708 =  $.1056 + .0652$   
 Rectangle BC = .1708 =  $.1056 + .0652$   
 Rectangle AD = .236 =  $.1056 + (2 \times .0652)$   
 Rectangle BD = .236 =  $.1708 + .0652$





1.008  
 1.056  
 0.652  
 0.404  
 0.248  
 0.156  
 0.09  
 0.064  
 0.04  
 0.026

0  
 382  
 236  
 146  
 09  
 056

382 x 2.614  
 Note: 2.618 x .2764 = 726  
 = 1 - .2764

4.236 x .1856 = 8472  
 4.236 x .0652 = 2764  
 3.618 x .236 = 7214  
 2.618 x .4422 = 146  
 146 = 6.854 x .1056 = 7276  
 6.854 x .0652 = 4472  
 2.836 x .1056 = 4472

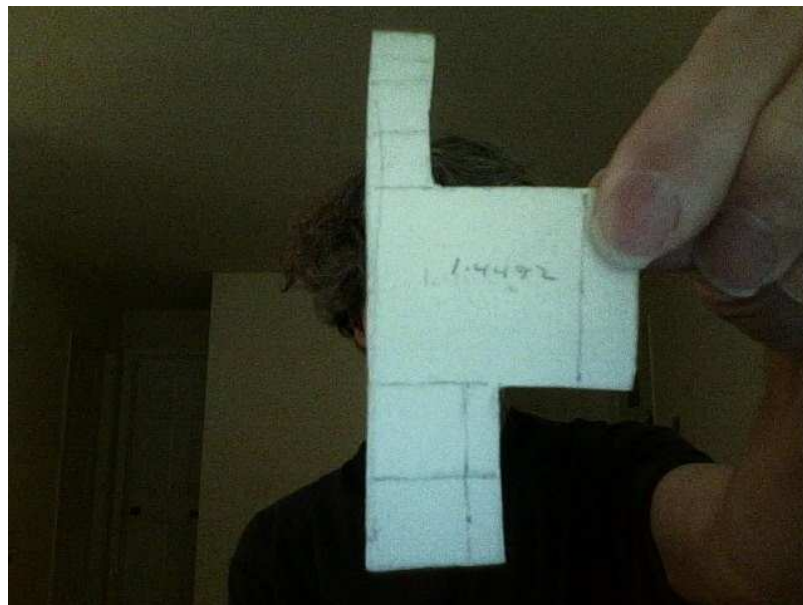
√s Forms = 1.118  
 1.382  
 1.4472  
 2.764  
 2.4472  
 1.3416 = 745

Note: 518 = .1727 x 3  
 3416 = 2.927 - 1 = 1.927 = 518  
 1 - 3416 = 6584 = 6518  
 1727 = 1/2

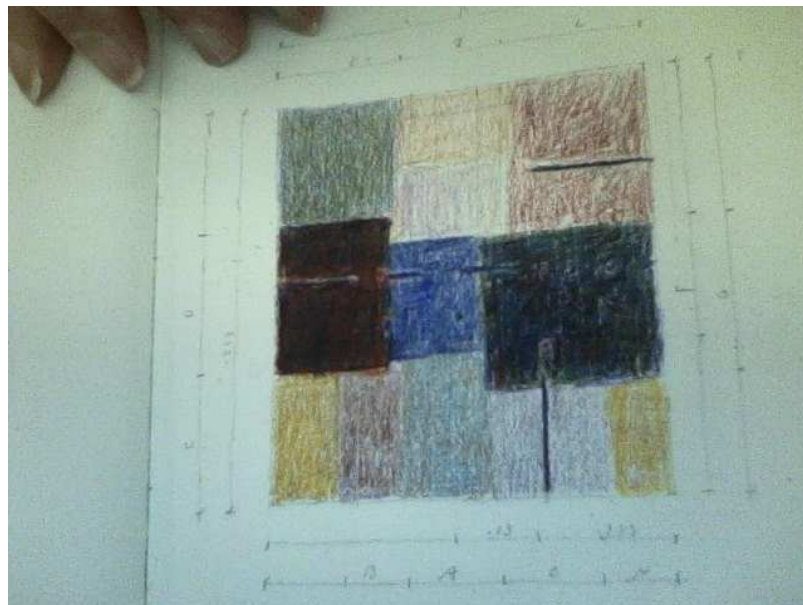
rec. p 2.844  
 9944 = 1.118

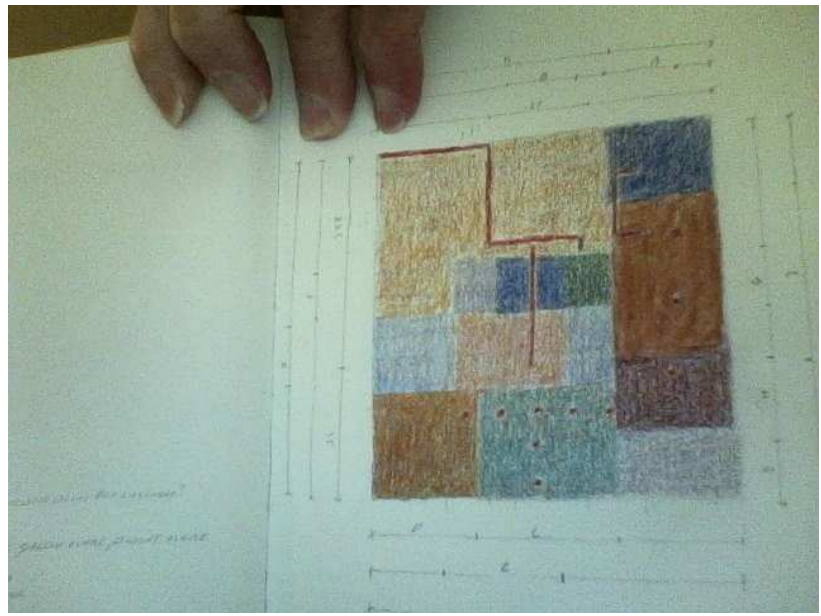
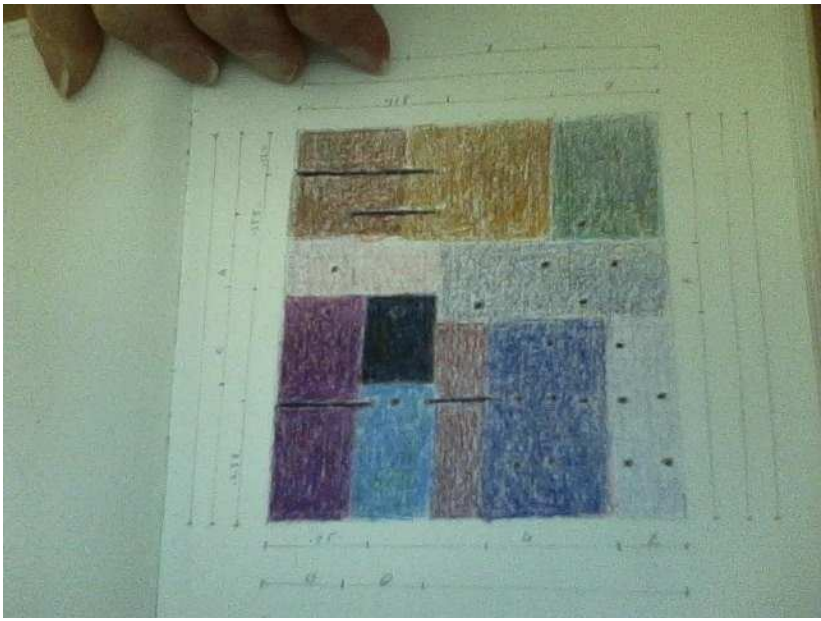
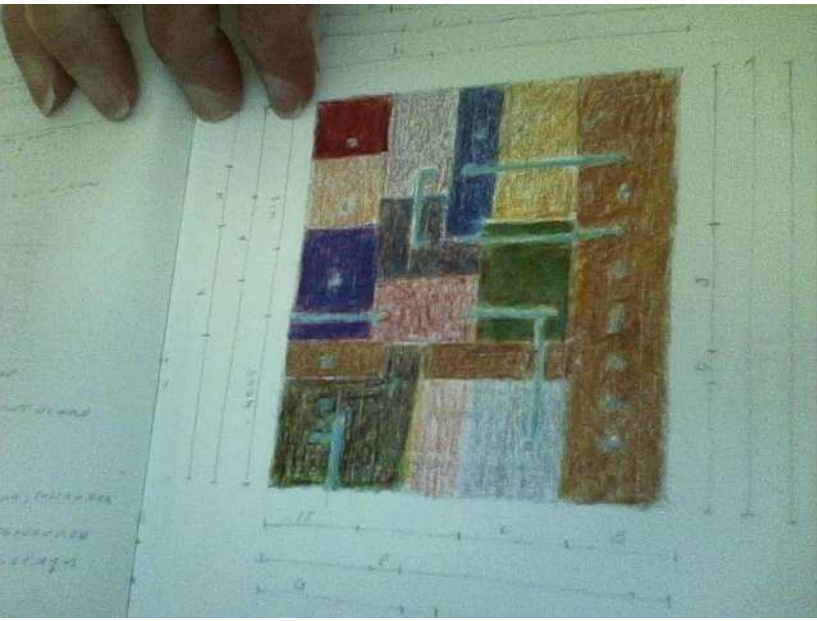
1.809 - 5 = .3618  
 3.618 + 5 = .7236

2.88 = 3.46 : 5 = 6.91  
 8528 - 288 = 264  
 = 3.788 ÷ 7 = .54  
 788 = 2.124

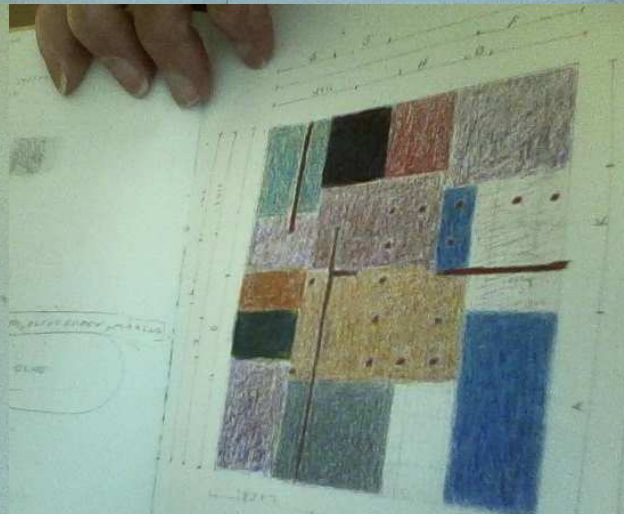
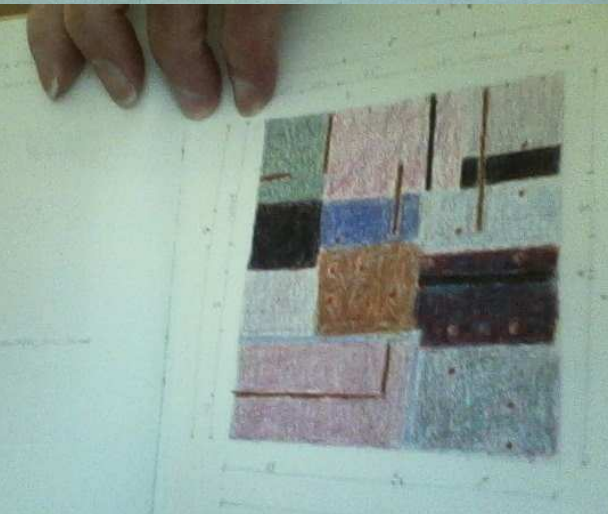
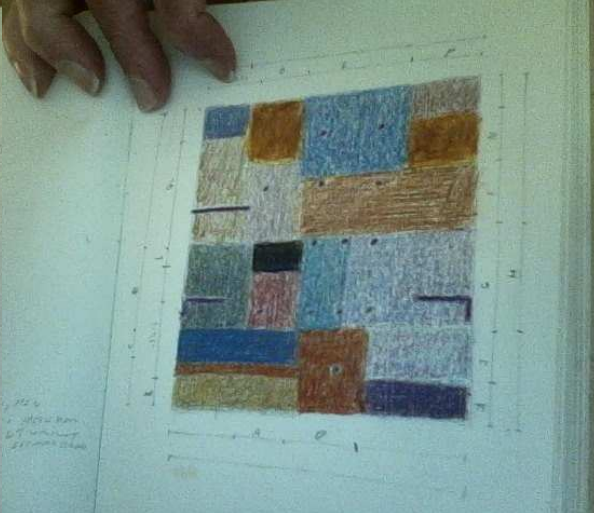
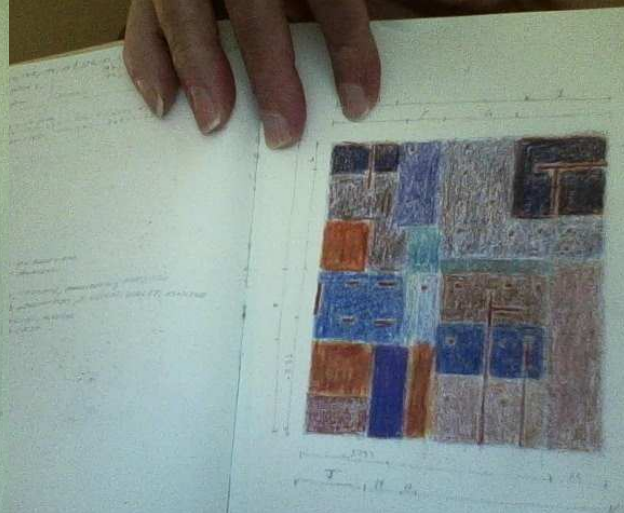
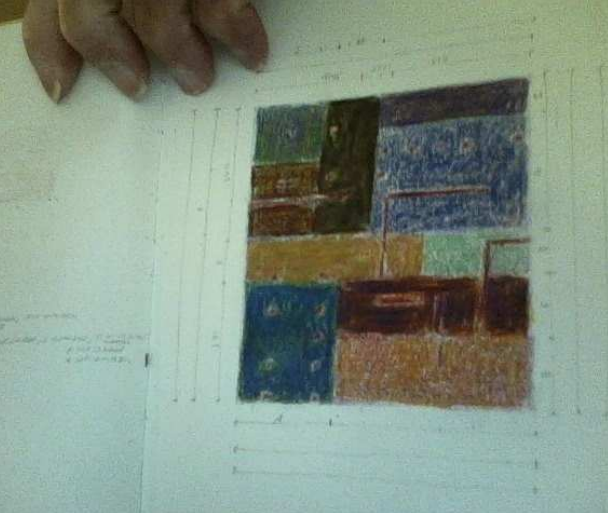
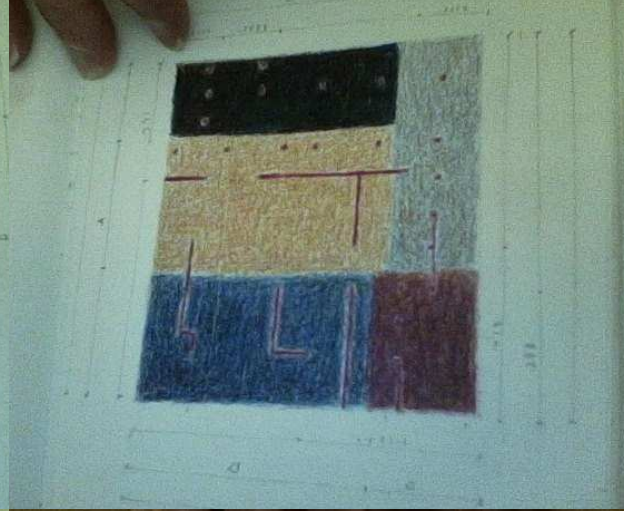
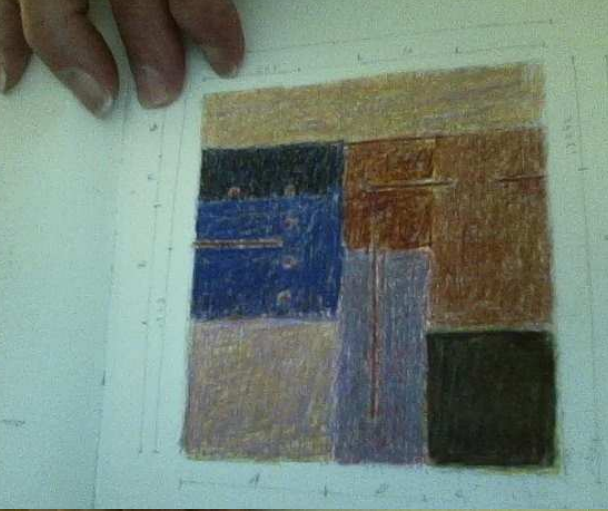


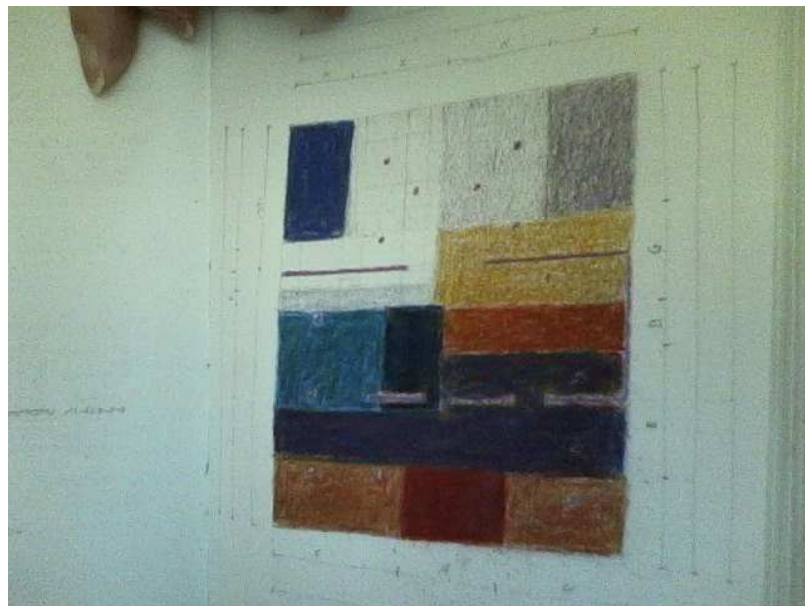
$.078 = .146 \times \frac{1}{2} .045$   
 $.078 = \text{recip of } .922 - 1$   
 $.0507 = (.0404 - .0326) \times 10$   
 $.0854 = .3618 - .2764$   
 $.0854 = \frac{1}{2} .1708$   
 $.0854 = .045 + .0404$   
 $.09 = 2 \times .045$   
 $.09 = .292 - .202$   
 $.1012 = \frac{1}{2} - .202$   
 $.101 = .46 + .45$   
 $.118 = .045 + .073$   
 $.118 = .191 - .073$   
 $.1252 = \frac{1}{2} .2516$   
 $.1252 = .1208 - .045$   
 $.1252 = .191 - .0652$   
 $.1322 = \frac{1}{2} \text{ recip of } 3.418$   
 $.1322 = .0734 - .0652$   
 $.1322 = .0342 - .5$   
 $.146 = \frac{1}{2} \text{ recip of } 3.428$   
 $.146 = .045 + .101$   
 $.146 = .382 - .236$   
 $.1708 = .0652 + .1056$   
 $.1809 = \frac{1}{2} \text{ recip of } 2.74$









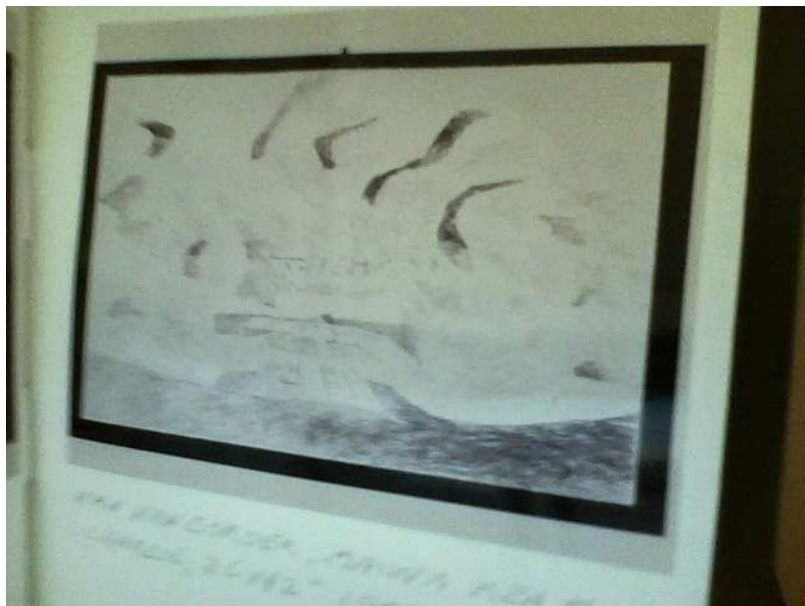












THE FLYING DUTCHMAN  
JANUARY 25, 1912 - 1913









